WHAT IS CLAIMED IS

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1. A capacitor, comprising:

a capacitor part comprising a dielectric film sandwiched by a pair of electrodes; and

a support body of a film of an organic polysilane, said support body supporting said capacitor part thereon.

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2. The capacitor as claimed in claim 1, further comprising an insulation layer covering said capacitor part.

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3. A method of manufacturing a capacitor including a capacitor part in which a dielectric film is sandwiched by a pair of electrodes and a support body of an organic polysilane film supporting said capacitor part, comprising the steps of:

forming a layer of organic polysilane on a surface of a base material;

forming a first electrode on said layer of organic polysilane;

forming a dielectric film on said first electrode;

forming a second electrode on said
dielectric film;

forming an insulation layer on said layer of organic polysilane and on said second electrode;

said layer of organic polysilane, said first electrode, said dielectric film, said second electrode and said insulation layer forming a layered body on said base material,

forming a groove in said layer of organic

10 silane and said insulation layer for dividing said
layered body into individual capacitors; and
removing said base material.

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4. The method as claimed in claim 3, wherein said step of removing said base material is conducted in the state that a tape is attached to a top surface of said insulation layer so as to bridge said groove.

- 5. substrate for mounting a semiconductor chip thereon, comprising:
 - a substrate body defined by upper and bottom surfaces;
- a plurality of terminals provided on said
 top surface for connection with a semiconductor chip
 mounted on said top surface, said top surface thereby
 forming a chip-mounting surface;
 - a plurality of terminals provided on said

bottom surface for external connection, said bottom surface thereby forming a mounting surface; and

a capacitor embedded in said substrate body right underneath said chip-mounting surface,

said capacitor comprising:

a capacitor part including a dielectric film sandwiched by a pair of electrodes; and

a support body of an organic polysilane film supporting said capacitor part.

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6. A method of manufacturing a substrate for 15 mounting a semiconductor chip, said substrate having a mounting surface carrying thereon terminals for external connection at a lower principal surface and a chip-mounting surface for carrying a semiconductor chip at an upper principal surface, said substrate further including a capacitor embedded right 20 underneath said chip-mounting surface such that said capacitor includes a capacitor part formed of a dielectric film sandwiched by a pair of electrodes and a support body of an organic polysilane film supporting said capacitor part, said capacitor having 25 an insulation film covering said capacitor part,

said method comprising the steps of:
bonding said capacitor on a base;
forming an insulation layer on said base
such that said insulation layer covers said capacitor;
laminating a plurality of insulation layers
on said base so as to cover said capacitor; and
removing said base.

- 7. A semiconductor device, comprising:
- a substrate; and
- a semiconductor chip mounted on said substrate,

5 said substrate comprising:

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- a substrate body defined by upper and bottom surfaces;
- a plurality of terminals provided on said top surface for connection with said semiconductor chip mounted on said top surface, said top surface thereby forming a chip-mounting surface;
- a plurality of terminals provided on said bottom surface for external connection, said bottom surface thereby forming a mounting surface; and
- a capacitor embedded in said substrate body right underneath said chip-mounting surface,

said capacitor comprising:

- a capacitor part including a dielectric film sandwiched by a pair of electrodes; and
- a support body of an organic polysilane film supporting said capacitor part.